

## WHAT IS CLAIMED IS:

*Sub A*  
1. For use in an information processing system, an apparatus  
2 for automatically classifying text comprising:

3                   a text classifier controller capable of reading text  
4 having at least one keyword contained within at least one story  
5 segment within said text, and capable of identifying keywords  
6 within each line of said text, and, in response to identifying at  
7 least one of said keywords within a line of text, classifying said  
8 line of text as a part of said at least one story segment within  
9 said text.

1                   2. The apparatus as set forth in Claim 1 wherein said text  
2 classifier controller is capable of sequentially comparing first  
3 and second lines of text to compare the number of keywords detected  
4 for each first line of text with the number of keywords detected  
5 for each second line of text, and capable of identifying a keyword  
6 transition point between two adjacent portions of text where the  
7 number of keywords detected in a keyword category for each line of  
8 text prior to said keyword transition point decreases below a  
9 threshold number.

1       3. The apparatus as set forth in Claim 2 wherein said text  
2 classifier controller is capable of classifying text between the  
3 beginning of the text and a first keyword transition point as one  
4 story segment of the text when said text classifier controller  
5 identifies a first keyword transition point.

1       4. The apparatus as set forth in Claim 2 wherein said text  
2 classifier controller is capable of classifying text between a  
3 first keyword transition point and a second keyword transition  
4 point as one story segment of the text when said text classifier  
5 controller identifies a first keyword transition point and a second  
6 keyword transition point.

1       5. The apparatus as set forth in Claim 1 wherein said text  
2 classifier controller is capable of sequentially comparing first  
3 and second lines of text to compare the number of keywords detected  
4 for each first line of text with the number of keywords detected  
5 for each second line of text, and capable of identifying a keyword  
6 transition point between two adjacent portions of text where the  
7 number of keywords detected in a keyword category for each line of  
8 text prior to said keyword transition point increases above a  
9 threshold number.

1       6. The apparatus as set forth in Claim 1 wherein said text  
2 classifier controller comprises an algorithm for reading lines of  
3 text to identify keywords contained within said lines of text,  
4 wherein said algorithm classifies each line of text in a keyword  
5 category that has the largest number of keywords in said line of  
6 text.

1       7. An information processing system of the type comprising  
2 a video story segmentation device, a keyword library and a  
3 classification device wherein said information processing system  
4 comprises:

5       a text classifier controller capable of reading text having at  
6 least one keyword contained within at least one story segment  
7 within said text, and capable of identifying keywords within each  
8 line of said text, and, in response to identifying at least one of  
9 said keywords within a line of text, classifying said line of text  
10 as a part of said at least one story segment within said text.

1       8. An information processing system as set forth in Claim 7  
2 wherein said text classifier controller is capable of sequentially  
3 comparing first and second lines of text to compare the number of  
4 keywords detected for each first line of text with the number of  
5 keywords detected for each second line of text, and capable of  
6 identifying a keyword transition point between two adjacent  
7 portions of text where the number of keywords detected in a keyword  
8 category for each line of text prior to said keyword transition  
9 point decreases below a threshold number.

1       9. An information processing system as set forth in Claim 8  
2 wherein said text classifier controller is capable of classifying  
3 text between the beginning of the text and a first keyword  
4 transition point as one story segment of the text when said text  
5 classifier controller identifies a first keyword transition point.

1       10. An information processing system as set forth in Claim 8  
2 wherein said text classifier controller is capable of classifying  
3 text between a first keyword transition point and a second keyword  
4 transition point as one story segment of the text when said text  
5 classifier controller identifies a first keyword transition point  
6 and a second keyword transition point.

1        11. An information processing system as set forth in Claim 7  
2 wherein said text classifier controller is capable of sequentially  
3 comparing first and second lines of text to compare the number of  
4 keywords detected for each first line of text with the number of  
5 keywords detected for each second line of text, and capable of  
6 identifying a keyword transition point between two adjacent  
7 portions of text where the number of keywords detected in a keyword  
8 category for each line of text prior to said keyword transition  
9 point increases above a threshold number.

1        12. An information processing system as set forth in Claim 7  
2 wherein said text classifier controller comprises an algorithm for  
3 reading lines of text to identify keywords contained within said  
4 lines of text, wherein said algorithm classifies each line of text  
5 in a keyword category that has the largest number of keywords in  
6 said line of text.

1        13. For use in an information processing system, a method of  
2 automatically classifying text comprising the steps of:

3                reading text having at least one keyword contained within  
4 at least one story segment within said text;

5                identifying keywords within each line of said text; and  
6                in response to identifying at least one of said keywords  
7 within a line of text, classifying said line of text as a part of  
8 said at least one story segment within said text.

1        14. The method as set forth in Claim 13 further comprising  
2 the steps of:

3                sequentially comparing first and second lines of text to  
4 compare the number of keywords detected for each first line of text  
5 with the number of keywords detected for each second line of text;  
6 and

7                identifying a keyword transition point between two  
8 adjacent portions of text where the number of keywords detected in  
9 a keyword category for each line of text prior to said keyword  
10 transition point decreases below a threshold number.

1        15. The method as set forth in Claim 14 further comprising  
2 the step of:

3                classifying text between the beginning of the text and a  
4 first keyword transition point as one story segment of the text  
5 when said text classifier controller identifies a first keyword  
6 transition point.

1        16. The method as set forth in Claim 14 further comprising  
2 the step of:

3                classifying text between a first keyword transition point  
4 and a second keyword transition point as one story segment of the  
5 text when said text classifier controller identifies a first  
6 keyword transition point and a second keyword transition point.

1        17. The method as set forth in Claim 13 further comprising  
2 the steps of:

3            sequentially comparing first and second lines of text to  
4 compare the number of keywords detected for each first line of text  
5 with the number of keywords detected for each second line of text;  
6 and

7            identifying a keyword transition point between two  
8 adjacent portions of text where the number of keywords detected in  
9 a keyword category for each line of text prior to said keyword  
10 transition point increases above a threshold number.

1        18. The method as set forth in Claim 13 further comprising  
2 the steps of:

3            sequentially comparing first and second lines of text to  
4 compare the number of keywords detected for each first line of text  
5 with the number of keywords detected for each second line of text;  
6 and

7            identifying a plurality of keyword transition points in  
8 said text between adjacent portions of text where the number of  
9 keywords detected in a keyword category for each line of text prior  
10 to each of said keyword transition points decreases below a  
11 threshold number; and

12            classifying the text between each two adjacent keyword  
13 transition points of said plurality of keyword transition points as  
14 a story segment of the text.

1        19. For use in a computerized information processing system,  
2 computer-executable instructions stored on a computer-readable  
3 storage medium for automatically classifying text, the computer-  
4 executable instructions comprising the steps of:

5                reading text having at least one keyword contained within  
6 at least one story segment within said text;

7                identifying keywords within each line of said text; and  
8                in response to identifying at least one of said keywords  
9 within a line of text, classifying said line of text as a part of  
10 said at least one story segment within said text.

1        20. The computer-executable instructions stored on a  
2 computer-readable storage medium as set forth in Claim 19, the  
3 computer-executable instructions further comprising the steps of:  
4                sequentially comparing first and second lines of text to  
5 compare the number of keywords detected for each first line of text  
6 with the number of keywords detected for each second line of text;  
7 and

8                identifying a keyword transition point between two  
9 adjacent portions of text where the number of keywords detected in  
10 a keyword category for each line of text prior to said keyword  
11 transition point decreases below a threshold number.

1        21. The computer-executable instructions stored on a  
2 computer-readable storage medium as set forth in Claim 20, the  
3 computer-executable instructions further comprising the step of:

4                classifying text between the beginning of the text and a  
5 first keyword transition point as one story segment of the text  
6 when said text classifier controller identifies a first keyword  
7 transition point.

1        22. The computer-executable instructions stored on a  
2 computer-readable storage medium as set forth in Claim 20, the  
3 computer-executable instructions further comprising the step of:

4                classifying text between a first keyword transition point  
5 and a second keyword transition point as one story segment of the  
6 text when said text classifier controller identifies a first  
7 keyword transition point and a second keyword transition point.

1        23. The computer-executable instructions stored on a  
2 computer-readable storage medium as set forth in Claim 19, the  
3 computer-executable instructions further comprising the step of:

4            sequentially comparing first and second lines of text to  
5 compare the number of keywords detected for each first line of text  
6 with the number of keywords detected for each second line of text;  
7 and

8            identifying a keyword transition point between two  
9 adjacent portions of text where the number of keywords detected in  
10 a keyword category for each line of text prior to said keyword  
11 transition point increases above a threshold number.

1        24. The computer-executable instructions stored on a  
2 computer-readable storage medium as set forth in Claim 19, the  
3 computer-executable instructions further comprising the steps of:

4            sequentially comparing first and second lines of text to  
5 compare the number of keywords detected for each first line of text  
6 with the number of keywords detected for each second line of text;  
7 and

8            identifying a plurality of keyword transition points in  
9 said text between adjacent portions of text where the number of  
10 keywords detected in a keyword category for each line of text prior  
11 to each of said keyword transition points decreases below a  
12 threshold number; and

13            classifying the text between each two adjacent keyword  
14 transition points of said plurality of keyword transition points as  
15 a story segment of the text.